

Full Text
STN

ACCESSION NUMBER: 1980-34734C [20] WPIINDEX
 ENTRY DATE: 20050418
 TITLE: Prepn. of pyrimidine derivs. and nucleoside(s) - by nucleophilic substitution of 4-sulphonate derivs.
 ADDITIONAL WORDS: CYTOSTATIC ANTIBACTERIAL ANTIFUNGAL ANTIVIRAL ACTIVE
 DERWENT CLASS: B03; C02
 INVENTOR: BAERWOLFF D; DEMIROV G D; GOLOVINSKY E V
 PATENT ASSIGNEE: (DEAK-C) AKAD WISSENSCHAFTEN DDR
 COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DD 140254	A	19800220	(198020)* DE			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DD 140254 A		DD 1978-209494	19781204

INT. PATENT CLASSIF.:
 IPC RECLASSIF.: C07H0019-00 [I,C]; C07H0019-06 [N,A]; C07H0019-10 [I,A]

BASIC ABSTRACT:
 DD 140254 A UPAB: 20050418
 Prepn. of pyrimidine derivs. of formula (I) is claimed. In (I) X is NH₂, NHNH₂, N(CH₂CH₂C₁)₂, NHN(CH₂CH₂C₁)₂, NH₃, NHCH(R₁)COOR₂, SH, SR₁, OR₁ ethylenimino or halogen, where R₁ is H, alkyl or aryl and R₂ is H or alkyl. Y is O, S or NH, Z is halogen, opt. substd. alkyl, aryl or alkoxy, R is aryl, alkyl a heterocyclic gp. or an OH-protected monosaccharide residue opt. esterified by phosphate or halogen. Cpd. (I) are prep'd. by (a) reacting the corresp. cpd. where X = OH with a sulphonyl chloride in the presence of NaH, and (b) reacting the resulting sulphonate ester with XH or its salts. Step (a) is pref. effected at 0-100 degrees C (esp. room temp.) using R₃SO₂Cl (where R₃ is alkyl, alkaryl, or perfluoroalkyl).
 Cpd. (I) have cytostatic, antibacterial, antifungal and antiviral activity. The process is simple and gives high yields (e.g. 5-82%) under mild conditions.

FILE SEGMENT: CPI
 MANUAL CODE: CPI: B04-B03; B05-B01M; B07-D12; B12-A01; B12-A02; B12-A06; B12-G07; C04-B03; C05-B01M; C07-D12; C12-A01; C12-A02; C12-A06; C12-G07

CHEMICAL CODE: UPB 20050418
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